

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (currently amended): A method comprising:

determining a timing relationship between a video window and a capture raster, wherein the video window is within a display raster; and

adjusting a pixel clock to avert shear of the video window by setting the pixel clock to cause the display raster to drift slowly if the video window is not fully within the timing of the capture raster.

Claim 2 (original): The method of claim 1, further comprising:

determining that the video window is within the timing of the capture raster; and quickly moving image shear out of the video window.

Claim 3 (cancel)

Claim 4 (previously presented): The method of claim 1, further comprising:

setting a color burst generator to phase-lock within the display raster.

Claim 5 (original): The method of claim 4, setting a color burst generator to phase-lock within the display raster further comprising setting the color burst generator to a predetermined nominal setting.

Claim 6 (original): The method of claim 2, quickly moving image shear out of the video window further comprising:

determining that the video window is later than the capture raster; and

adjusting the pixel clock to quickly retard the display raster.

Claim 7 (original): The method of claim 6, further comprising:

adjusting a color burst generator to maintain a viewable image on the display raster.

Claim 8 (original): The method of claim 7, further comprising:

retrieving frequency error information from a table of predetermined phase-locked loop parameters; and

calculating a color burst adjustment using the frequency error information.

Claim 9 (original): The method of claim 2, quickly moving image shear out of the video window further comprising:

determining that the video window is earlier than the capture raster;

adjusting the pixel clock to quickly advance the display raster; and

adjusting a color burst generator to maintain a viewable image on the display raster.

Claim 10 (currently amended): The method of claim 1, setting the pixel clock to cause the display raster to drift ~~slowly~~ further comprising:

determining that the pixel clock is quickly advancing the display raster; and

setting the pixel clock to slowly advance the display raster.

Claim 11 (currently amended): The method of claim 1, setting the pixel clock to cause the display raster to drift ~~slowly~~ further comprising:

determining that the pixel clock is quickly retarding the display raster; and

setting the pixel clock to ~~slowly~~ retard the display raster.

Claim 12 (original): The method of claim 1, further comprising determining a capture raster scan line number.

Claim 13 (original): The method of claim 12, further comprising determining a display raster scan line number.

Claim 14 (original): The method of claim 13, further comprising:

determining a capture raster field polarity; and

determining a display raster field polarity.

Claim 15 (original): The method of claim 1, determining a timing relationship between a video window and a capture raster further comprising:

periodically monitoring the capture raster and the display raster.

Claim 16 (original): The method of claim 15, wherein the monitoring period is not an exact multiple of a field time.

Claim 17 (original): The method of claim 1, adjusting a pixel clock to avert shear of the video window further comprising:

identifying a vertical retrace period; and

invoking an interrupt service routine to adjust the pixel clock.

Claim 18 (currently amended): A method comprising:

determining a timing relationship between a video window and a capture raster, wherein the video window is within a display raster; and

adjusting a pixel clock to maintain a shear-free display of the video window by setting the pixel clock to ~~slowly~~ advance the display raster if the timing relationship between the video window and the capture raster is below a predetermined threshold.

Claim 19 (currently amended): The method of claim 18, adjusting the pixel clock to maintain a shear-free display of the video window further comprising:

determining that the timing relationship between the video window and the capture raster is above a predetermined threshold; and

setting the pixel clock to ~~slowly~~ retard the display raster.

Claim 20 (cancel)

Claim 21 (original): The method of claim 18, adjusting the pixel clock to maintain a shear-free display of the video window further comprising:

determining that the timing relationship between the video window and the capture raster is within a predetermined range; and

not adjusting the pixel clock.

Claim 22 (original): The method of claim 19, determining that the timing relationship between the video window and the capture raster is above a predetermined threshold further comprising:

determining a rate of drift between the capture raster and the display raster.

Claim 23 (original): The method of claim 22, determining a rate of drift between the capture raster and the display raster further comprising:

- sampling a first indicator of the capture raster;
- sampling a second indicator of the display raster;
- differencing the first indicator from the second indicator to produce a result; and
- comparing the result with a previously calculated result to produce a difference of differences.

Claim 24 (original): The method of claim 23, further comprising averaging the difference of differences with previously stored difference of differences.

Claim 25 (original): The method of claim 18, further comprising:

- retrieving frequency error information from a table of predetermined phase-locked loop parameters.

Claim 26 (original): The method of claim 25, retrieving frequency error information from a table of predetermined phase-locked loop parameters further comprising:

- retrieving an upper parameter, a middle parameter, and a lower parameter from a group of neighboring phase-locked loop parameters within the table; and
- designating the middle parameter as a default setting.

Claim 27 (previously presented): A method comprising:

- determining a timing relationship between a video window and a capture raster, wherein the video window is within a display raster;

- adjusting a pixel clock to avert shear of the video window, comprising monitoring the timing relationship between the display raster and the capture raster, wherein the monitoring is performed at a first frequency; and

- adjusting the pixel clock to maintain a shear-free display of the video window.

Claim 28 (cancel)

Claim 29 (previously presented): The method of claim 27, adjusting the pixel clock to maintain a shear-free display of the video window further comprising:

monitoring the timing relationship between the display raster and the capture raster, wherein the monitoring is performed at a second frequency.

Claim 30 (original): The method of claim 29, further comprising:

monitoring the timing relationship between the display raster and the capture raster, wherein the first frequency is greater than the second frequency.

Claim 31 (currently amended): An article comprising a medium storing instructions that if executed enable a system to:

calculate a timing relationship between a video window and a capture raster, wherein the video window is within a display raster; and

adjust a pixel clock to avert shear of the video window to cause the display raster to drift ~~slowly~~ if the video window is not within the timing of the capture raster.

Claim 32 (original): The article of claim 31, wherein the instructions further enable the system to:

determine that the video window is within the timing of the capture raster; and
quickly move image shear out of the video window.

Claim 33 (cancel)

Claim 34 (previously presented): The article of claim 31, wherein the instructions further enable the system to:

set a color burst generator to phase-lock to the display raster.

Claim 35 (original): The article of claim 34, wherein the instructions further enable the system to:

set the color burst generator to a predetermined nominal setting.

Claim 36 (original): The article of claim 31, wherein the instructions further enable the system to:

determine that the video window is later than the capture raster; and
adjust the pixel clock to quickly retard the display raster.

Claim 37 (original): The article of claim 36, wherein the instructions further enable the system to:

adjust a color burst generator to maintain a viewable image on the display raster.

Claim 38 (previously presented): The article of claim 31, wherein the instructions further enable the system to:

determine that the video window is before the capture raster;

adjust the pixel clock to quickly advance the display raster; and

adjust a color burst generator to maintain a viewable image on the display raster.

Claim 39 (currently amended): The article of claim 31, wherein the instructions further enable the system to:

determine that the pixel clock is quickly advancing the display raster; and

set the pixel clock to ~~slowly~~ advance the display raster.

Claim 40 (currently amended): The article of claim 31, wherein the instructions further enable the system to:

determine that the pixel clock is quickly retarding the display raster; and

set the pixel clock to ~~slowly~~ retard the display raster.

Claim 41 (currently amended): An article comprising a medium storing instructions that if executed enable a system to:

determine a timing relationship between a video window and a capture raster, wherein the video window is within a display raster; and

adjust a pixel clock to maintain a shear-free display of the video window to ~~slowly~~ retard the display raster if the timing relationship between the video window and the capture raster is above a predetermined threshold.

Claim 42 (cancel)

Claim 43 (currently amended) The article of claim 41, further storing instructions for enabling a system to:

determine that the timing relationship between the video window and the capture raster is below a predetermined threshold; and

set the pixel clock to ~~slowly~~ advance the display raster.

Claim 44 (previously presented): The article of claim 41, further storing instructions to enable the system to:

determine that the timing relationship between the video window and the capture raster is within a predetermined range; and

not adjust the pixel clock.

Claim 45 (previously presented): The article of claim 42, further storing instructions to enable the system to:

determine a rate of drift between the capture raster and the display raster.

Claim 46 (previously presented): The article of claim 45, further storing instructions to enable the system to:

sample a first indicator of the capture raster;

sample a second indicator of the display raster;

difference the first indicator from the second indicator to produce a result; and

compare the result with a previously calculated result to produce a difference of differences.

Claim 47 (previously presented): The article of claim 46, further storing instructions to enable the system to:

average the difference of differences with previously stored difference of differences.

Claim 48 (previously presented): A system comprising:

an oscillator to generate a reference clock;

a pixel clock to receive the reference clock; and

a storage to store instructions that, if executed, enable the system to determine a timing relationship between a video window and a capture raster, wherein the video window is within a

display raster; adjust the pixel clock to avert shear of the video window; adjust the pixel clock to maintain a shear-free display of the video window; and monitor the timing relationship between the display raster and the capture raster, wherein the monitoring to be performed at a first frequency.

Claim 49 (cancel)

Claim 50 (previously presented): The system of claim 48, wherein the storage further comprises instructions to enable the system to:

monitor the timing relationship between the display raster and the capture raster, wherein the monitoring to be performed at a second frequency.

Claim 51 (previously presented): The system of claim 50, wherein the storage further comprises instructions to enable the system to:

monitor the timing relationship between the display raster and the capture raster, wherein the first frequency is greater than the second frequency.